

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Algebra 1A Pd: \_\_\_\_\_

**Weekend Word Problem #15: Inequalities and Construction**

**The Situation:** Flower Power Construction is tasked with designing and building yard structures for a particular client. They must follow strict guidelines based on money constraints and environmental concerns.

- The client wants a rectangular vegetable garden with a perimeter of at least eighty feet.

1. Flower Power Construction decides the length of the vegetable garden will be two feet longer than the width. Let  $w$  = width and write an expression for the length in terms of the width.

2. Write an inequality for the perimeter of the vegetable garden. (Perimeter = add all of the sides)

3. Solve your inequality for the width of the vegetable garden.

4. What are the minimum length and width for the vegetable garden?

